



Gas Response Trainer

SST4 MINI SIMULATOR



TRAINING AND SIMULATION

Applications

- Gas safety training
- Confined space training
- Emergency & evacuation drills
- Industrial safety (HSE)
- Fire brigade & responders
- Police & emergency services
- Technician training
- Product demos & validation

Features and Benefits



Real-Life Gas Response Trainer

The SST4 Mini Simulator reproduces the alarm logic, visual indicators and audible behaviour of an SST4 Mini detector without using live gas or active sensors. This enables realistic gas response training in safe areas, eliminating exposure risks while maintaining authentic detector behaviour.



Human Response Simulation

The simulator is designed to mirror real detector responses across four independent gas channels. Trainers can use this functionality to assess and train operator behaviour, decision-making and situational awareness under controlled but realistic conditions.



Multi-Channel Control

One simulator controller can operate up to 15 simulator units simultaneously, allowing both individual and group training sessions. Scenarios can be repeated consistently, supporting structured training programs and objective evaluation of user response.



Training and Certification Programs

Repeatable simulation parameters enable organisations to standardise training procedures and align them with internal qualification, audit and certification requirements. This ensures consistent learning outcomes across teams and locations.



Independent Operation

The system operates independently without software, mobile applications or external computer systems. This allows trainers to deploy the simulator immediately in classrooms, workshops or on-site training areas.



Safe-Area Simulator Device

Fire brigades, police units, industrial operators, HSE teams and service engineers all benefit from improved readiness. The trainer reduces human error and elevates operational performance to a level traditional training methods cannot match.

Technical Specifications

Parameter	Specifications
Simulated gases	O ₂ , LEL, CO, H ₂ S
Output signal type	Digital
Response time	±10s
Power supply	Powered by 2 x AA batteries (3.0 V)
Communication interface	Wi-Fi / Radio signal (Outside: ±100m range without obstacles)
Amount of simulators per controller	Up to 15 simulator channels can be controlled with one controller

Simulation Details

Gas	Simulation range	Adjustment step	Default calibration value	Description
O ₂	0 – 24.9% Vol	0.1% Vol	18.0% Vol	Simulates ambient oxygen levels
LEL	0 – 60% LEL	1% LEL	50% LEL	Simulates explosive methane range (LEL)
CO	0 – 1990 ppm	1 ppm	50 ppm	Simulates carbon monoxide levels
H ₂ S	0 – 99.9 ppm	0.1 ppm	10 ppm	Simulates hydrogen sulphide levels

Warning!

Do not use in potential explosive and/or hazardous atmospheres. Safe area use only. The SST4 Mini Simulator is intended solely for training and simulation purposes. It does not replace functional gas detectors and must not be used for live gas measurement or personal protection.

Simulation Preview




For more information

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SST4 Mini simulator DS EN v1.0A1F © 2025 WatchGas B.V.

WatchGas is dedicated to continuously improving its products. Therefore, the specifications and features mentioned in this datasheet are subject to change without prior notice.


Accessories




SST4 Mini Simulator controller
SST4-SIM-RMT




SST4 Mini Simulator Device
SST4-SIM-UNIT




SST4 Mini Simulator Kit (1 remote, 1 SST4 sim)
SST4-SIM-KIT




WatchGas SST Range 5 Way Stackable Charging Cradle
max 4 can be coupled w/o CHR
SST-STACK-CHR



WatchGas SST Range 6 Way Charging Cradle
with universal adapter
SST-6WSCC-KIT



WatchGas SST Induction Cradle Charger
with (SST-RCH) adapter
SST-IND-S



WatchGas SST Docking Station
For SST1, SST4 Micro, Mini and Pump, and SST5
SST-DOCK

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